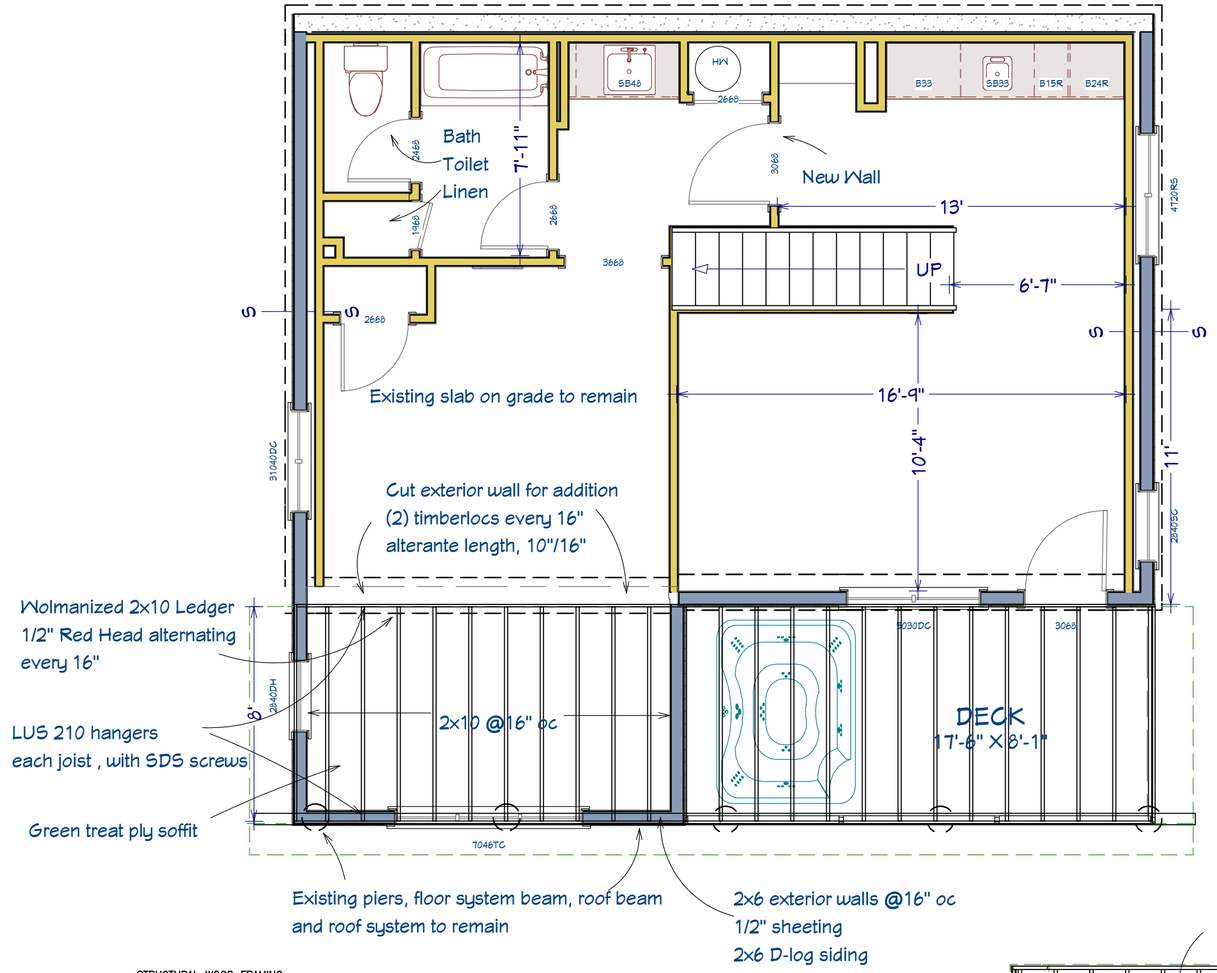


MAIN FLOOR RENO
813 SQ FT

GENERAL STRUCTURAL NOTES

DESIGN LIVE & SNOW LOADS
a. ROOF.....105 psf snow
b. FLOOR.....40 psf Live
c. WIND.....90 mph Exp B
d. SEISMIC.....Ss=0.26g S1=0.068g Group I Category II

GOVERNING SPECIFICATION
International Residential Code (IBC) 2015 Edition

FOUNDATION DESIGN
a. The existing foundation is to be reused and is assumed to be adequate as there are no additional loads.

All soils issues should be addressed to the soils engineer. The owner or his representative are responsible for following the soils report, contacting the soils engineer, and following their recommendations.

b. The structural design drawings are for the building and permanent foundation only. Detached retaining walls including rock retaining walls are by others.

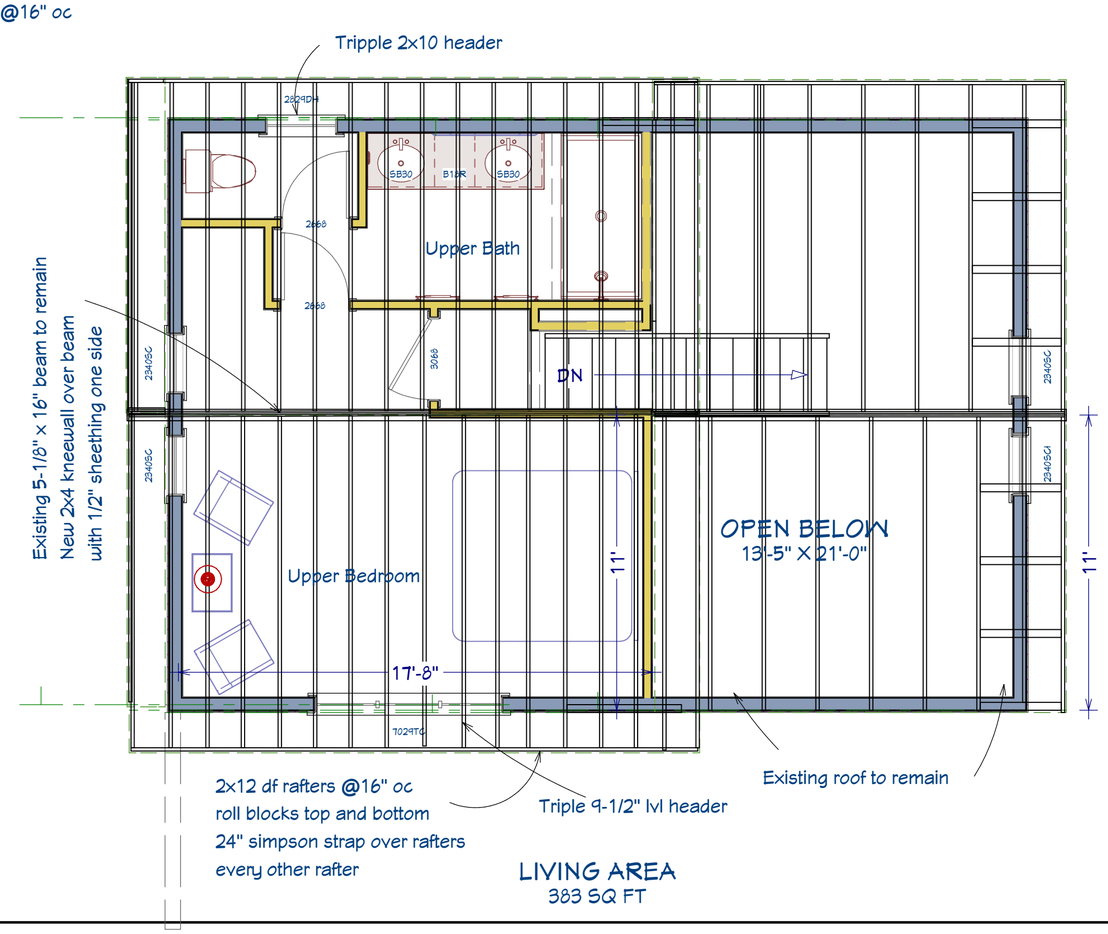
The structural engineer is not responsible for slope stability, excavation, shoring, drainage, soils issues, or construction methods. The structural engineer's duties are limited to design only and is not a project engineer.

STRUCTURAL WOOD FRAMING
a. Except where noted otherwise all lumber shall be Douglas Fir-Larch No. 2 or better.
b. Except as noted otherwise minimum nailing shall be provided as specified in Table 2304.9.1 Fastening Schedule of the IRC 2015 edition.
c. Floor and roof sheathing shall be APA rated with exterior glue and graded in accordance with APA Standards.
FLAT ROOF: 3/4" 48/24 8d@6 edge nail 8d@12 field nail
SLOPED ROOF: 5/8" 40/20 8d@6 edge nail 8d@12 field nail
FLOOR: 3/4"T&G 48/24 8d@6 edge nail 8d@12 field nail
SHEAR WALL: 1/2" 24/10 8d@4 edge nail 8d@12 field nail
d. Where light gage framing anchors are shown or required they shall be Simpson "Strong Tie" or equal ICBO approved connectors and shall be installed with the number and type of nails recommended by the manufacturer to develop the rated capacity.
e. Glue laminated timber shall be of such stress grade to provide glue laminated beams with combination symbol 24F-V4. Beams in cantilevered or reverse bending shall be 24F-V8.
f. Floor joists shall be plant fabricated I series with LVL wood flanges and plywood or OSB webs and carry ICBO approval for the composite section. Joists shall be designed to carry the full dead load and live loads of the floor and any other superimposed loads. Bridging and blocking shall be installed according to the fabricator's requirements.
g. All timber logs to be White Pine ungraded. Sizes shown are minimum and may be increased. Typical log to log connection is saddle notch w/(2)5/8" lag bolts 6" embed unless noted otherwise.
h. All microlam to be LVL 1.9E WS or equal, allowable bending stress 2600 psi and an allowable shear stress 285 psi. Nail 2 or 3 LVL's with 3 rows 16d @ 12, thru bolt 4 or more LVL's with 2 rows 1/2" thru bolts @24, UNO.
i. All rim board to be Timber Strand LSL 1 1/4" x 11 7/8" Grade 1.3 with allowable bending stress of 1700 psi and allowable shear stress of 400 psi parallel to grain. All Timber Strand LSL beams & rafters to be Grade 1.55 with allowable bending stress of 2325 psi and allowable shear stress of 310 psi parallel to grain.
j. All Parrallam beams are PSL 2.0E to have allowable bending stress of 2900 psi and allowable shear stress of 290 psi. Parrallam columns are PSL 1.8E to have allowable compressive stress of 2500 psi parallel to grain.
k. All unlisted headers to be 2-2x8.

STRUCTURAL STEEL
a. All bolts, including anchor bolts, shall conform to ASTM Specification A307.
b. Structural steel rolled shapes, including plates and angles shall be ASTM A36. Tube shapes shall conform to ASTM A500 Grade B, 46 ksi yield. Pipe shapes shall conform to ASTM A53 Grade B.
c. Except as noted, expansion bolts shall be "WEC-IT", "RED HEAD", or approved wedge type with the following minimum embedments: 5/8" dia: 2", 1/2" dia: 1-1/2".
c. Except as noted, all Type "HD" tiedowns to concrete shall be secured with 5/8" epoxy bolt to foundation wall with a minimum 8" embed.

GENERAL
The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to bracing and shoring for loads due to excavation, sliding soil, or construction equipment. Observation visits to the site by the design professionals shall not include inspection of the above items, nor will the design professionals be responsible for the contractor's means, methods, techniques, sequences for procedure of construction, or the safety precautions and the programs incident thereto.

1/4" = 1'



LIVING AREA
383 SQ FT

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STEAMBOAT SPRINGS, CO. 970-846-6837

COLORADO REGISTERED
MICHAEL EHRLICH
30669
PROFESSIONAL ENGINEER
4-16-2018

STRUCTURE ONLY

CLIENT	Vista Verde Ranch
ADDRESS	58000 Cowboy Way Clark, CO 80428
DATE	3/20/18
DRAWN	TCI
JOB	Hinman
TITLE	Framing
Sheet Number	